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Application Number

	•	Application Number	10/692,367						
TRANSMITT	AL	Filing Date	October 22, 2003						
FORM		First Named Inventor	Mathias L. MULLER						
(to be used for all correspondence after	· initial filing)	Art Unit	1638						
,	·	Examiner Name	Not Yet Assigned						
Total Number of Pages in This Submiss	sion 6	Attorney Docket Number	549162000320						
ENCLOSURES (Check all that apply)									
Fee Transmittal Form	Drawing(s)		After Allowance Communication to Group						
Fee Attached	Licensing-rel	lated Papers	Appeal Communication to Board of Appeals and Interferences						
Amendment/Reply	Petition		Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)						
After Final	Petition to Co		Proprietary Information						
Affidavits/declaration(s)	Power of Atto Change of Co	rney, Revocation prrespondence Address	Status Letter						
Extension of Time Request	Terminal Dis	claimer	X Other Enclosure(s) (please identify below):						
Express Abandonment Request	Request for	Refund	Form 1449, 2 pages; Return Postcard						
X Information Disclosure Statement, 3 pages	CD, Number	of CD(s)							
Certified Copy of Priority Document(s)		-							
Response to Missing Parts/	Remarks								
Response to Missing Parts under 37 CFR 1.52 or 1.53									
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT									
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Dated: April 29, 2004

April 29, 2004

Signature: Ala amus (Rhea Amid)

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Rhea Amid

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Mathias L. MÜLLER et al.

Serial No.: 10/692,367

Filing Date: October 22, 2003

For: NOVEL COMPOSITIONS WITH

CHITINASE ACTIVITY

Examiner: Unassigned

Group Art Unit: 1638

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action directed to the related applications Serial Number 10/389,432 filed 14 March 2003, and Serial Number 10/290,086 filed 6 November 2002; accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

	This In	formation Disclosure Statement is submitted:							
	With	With the application; accordingly, no fee or separate requirements are required.							
	Before the mailing of a first Office Action after the filing of a Request for Continued								
	Exam	ination under § 1.114.							
\boxtimes	Within three months of the application filing date or before mailing of a first Office								
	Actio	Action on the merits; accordingly, no fee or separate requirements are required.							
	After	receipt of a first Office Action on the merits but before mailing of a final Office							
	Actio	Action or Notice of Allowance.							
		A fee is required. A check in the amount of is enclosed.							
		A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached							
		to this submission in duplicate.							
		A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee							
		is believed to be due.							
	After	mailing of a final Office Action or Notice of Allowance, but before payment of the							
	issue	fee.							
		A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the							
		amount of is enclosed.							
		A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal							
		form (PTO/SB/17 is attached to this submission in duplicate.)							

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

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In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 549162000320. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: April 79, 2004

Respectfully submitted,

Reg. No. 47,608

Morrison & Foerster LLP

3811 Valley Centre Drive, Suite 500 San Diego, California 92130-2332

Telephone: (858) 314-7962

Facsimile: (858) 720-5125

Form PTO-1449				Docket Number 549162000320 Application Number 10/692,367						
INFORMATION DISCLOSURE CITATION IN AN APPLICATION				Applicant Mathias L. MÜLLER et al.						
,				Filing Date October 22, 2003 Group Art Unit 1638						
OIPE				Mailing Date April 29, 2004						
MAY 0 3 2004 U.S. PATENT DOCUMENTS										
Examiner Initials	Ref. No.	Date	Document No.		Name	Class	Subclass	Filing Date If Appropriate		
•										
FOREIGN PATENT DOCUMENTS										
Examiner Initials	Ref. No.	Date	Document No.		Country Class S		Subclass	Translation YES NO		
							•			
OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)										
Examiner Initials	Ref. No.	Title								
	1.	Asao, H., et al., "Enhanced Resistance Against a Fungal Pathogen Sphaerotheca humuli in Transgenic Strawberry Expressing a Rice Chitinase Gene" Plant Biotech. 14(3):145-149 (1997).								
	2.	Boller, T., "Hydrolytic Enzymes in Plant Disease Resistance" <i>In Plant Microbe Interactions</i> , Molecular and Genetic Perspectives Vol. 2 (Ed. Nester, E.W. & Kosuge, T.) pp. 385-413 (1987).								
	3.	Broglie, K., et al., "Transgenic Plants with Enhanced Resistance to the Fungal Pathogen Rhizoctonia solani" Science 254:1194-1197 (1991).								
	4.	Collinge, D., et al., "Plant Chitinases" Plant J. 3:31-40 (1993).								
	5.	Cosio, I., et al., "Bioconversion of Shellfish Chitin Waste: Waste Pretreatment, Enzyme Production, Process Design, and Economic Analysis" J. Food Sci. 47:901-905 (1982).								
	6.	Ding, X., et al., "Insect Resistance of Transgenic Tobacco Expressing an Insect Chitinase Gene" Transgenic Res. 7(2):77-84 (1998).								
	7.	Gianinazzi, S., "Genetic and Molecular Aspects of Resistance Induced by Infections or Chemicals" In Plant Microbe Interactions, Molecular and Genetic Perspectives Vol. 1 (Ed. Nester, E.W. & Kosuge, T.) pp. 321-342 (1987).								
	8.	Grison, R., et al., "Field Tolerance to Fungal Pathogens of Brassica napus Constitutively Expressing a Chimeric Chitinase Gene" Nature Biotech. 14:643-646 (1996).								
	9.	Hamel, F., et al., "Structural and Evolutionary Relationships Among Chitinases of Flowering Plants" J. Mol. Evol. 44(6):614-24 (1997).								
	10.	Legrand, M., et al., "Biological Function of Pathogenesis-related Proteins: Four Tobacco Pathogenesis-related Proteins Are Chitinases" Proc. Natl. Acad. Sci. USA 84:6750-6754 (1987).								
EXAMINER:				DATE CONSIDERED:						
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.										

Sheet 2 of 2 Docket Number 549162000320 Application Number 10/692,367 Applicant ATION DISCLOSURE CITATION . Mathias L. MÜLLER et al. IN AN APPLICATION (Use several sheets if necessary) Filing Date October 22, 2003 Group Art Unit 1638 Mailing Date April 29, 2004 Lorito, M., et al., "Genes from Mycoparasitic Fungi As a Source for Improving Plant Resistance to 11. Fungal Pathogens" Proc. Natl. Acad. Sci. USA 95:7860-7865 (1998). 12. Mauch, F., et al., "Antifungal Hydrolases in Pea Tissue: Inhibition of Fungal Growth by Combinations of Chitinase and β -1,3-Glucanase" Plant Physiol. 88:936-942 (1988). Neuhaus, J., et al., "High Level Expression of a Tobacco Chitinase Gene in Nicotiana sylvestris. 13. Susceptibility of Transgenic Plants to Cercospora nicotianae" Plant Mol. Biol. 16:141-151 (1991). Tabei, Y., et al., "Transgenic Cucumber Plants Harboring a Rice Chitinase Gene Exhibit Enhanced 14. Resistance to Gray Mold (Botrytis cinerea)" Plant Cell Rep. 17:159-164 (1998). 15. Vierheilig, H., et al., "Colonization of Transgenic Nicotiana sylvestris Plants, Expressing Different Forms of Nicotiana tabacum Chitinase, by the Root Pathogen Rhizoctonia solani and by the Mycorrhizal Symbiont Glomus mosseae" Molecular Plant-microbe Interactions 6:261-264 (1993). DATE CONSIDERED: **EXAMINER:**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in

conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/ 08 (2-92)

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